Abstracts

Evaluation of the power absorbed in subjects exposed to EM fields in partially closed environments by using a combined analytical-FDTD method

P. Bernardi, M. Cavagnaro, S. Pisa and E. Piuzzi. "Evaluation of the power absorbed in subjects exposed to EM fields in partially closed environments by using a combined analytical-FDTD method." 1999 MTT-S International Microwave Symposium Digest 99.2 (1999 Vol. II [MWSYM]): 599-602 vol.2.

In this paper, the exposure of a man to the field radiated by a radio base station operating around 900 MHz in an urban area has been performed. The FDTD method combined with the analytical solution of the field radiated by an isotropic antenna has been used. The power deposition in a human subject exposed in the presence of reflecting walls, roughly simulating buildings and the ground, has been compared with that obtained for free space exposure. The main differences between the two situations have been clarified.

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